## IN THE CLAIMS:

The following is a listing of all pending and cancelled claims in this application. This listing replaces any prior listing.

Claims 1-18 (Canceled).

- 19. (Currently amended) A substance composition comprising a carbon nanotube, an enzyme co-factor electrochemiluminescence co-reactant attached to the outer surface of said carbon nanotube, and an electrochemiluminescent label attached to the outer surface of said carbon nanotube, wherein said enzyme co-factor is selected from the group consisting of NADH, NADPH, NADP+ and a derivative thereof.
- 20. (Currently amended) The substance composition of claim 19, wherein said electrochemiluminescent label comprises a metal atom.
- 21. (Currently amended) The substance composition of claim 20, wherein said metal is Ru, Os or Re.
- 22. (Currently amended) The substance composition of claim 20, wherein said metal is Ru.
- 23. (Currently amended) The substance composition of claim 19, wherein said electrochemiluminescent label is Ru(bpy)<sub>3</sub><sup>2+</sup>.
  - 24. (Cancelled).

- 25. (Currently amended) The substance composition of claim 19, wherein said electrochemiluminescent label is attached to said the outer surface of said carbon nanotube via a functional group.
- 26. (Currently amended) The substance composition of claim 19, wherein said enzyme cofactor electrochemiluminescence co-reactant is attached to said the outer surface of said carbon nanotube via a functional group.
- 27. (Currently amended) The substance composition of claim 25, wherein said functional group is COOH.
- 28. (Currently amended) An assay A composition comprising (i) the substance composition of claim 19 and (ii) an enzyme and/or a enzyme substrate.
- 29. (Currently amended) A kit comprising, in one or more containers, (i) the substance composition of claim 19 and (ii) an enzyme and/or a enzyme substrate.
- ° 30. (Currently amended) The <u>assay</u> composition of claim 28, wherein said composition comprises said enzyme and said enzyme is dehydrogenase.
- 31. (Currently amended) The <u>assay</u> composition of claim 30, wherein said dehydrogenase is glucose dehydrogenase.

- 32. (Currently amended) The kit of claim 29, wherein said <u>assay</u> composition comprises said enzyme and said enzyme is dehydrogenase.
- 33. (Currently amended) The <u>assay</u> composition of claim 30, wherein said <u>assay</u> composition comprises said <u>substance</u> <u>composition</u> and said substrate is a substrate of dehydrogenase.
- 34. (Currently amended) An assay A composition comprising (i) the substance composition of claim 19, (ii) an enzyme and (ii) a substrate to said enzyme.
  - 35. (Cancelled).
- 36. (Currently amended) The <u>assay</u> composition of claim 34, wherein said electrochemiluminesence co-reactant is NADH, NADPH, NAD+ or a derivative thereof, said enzyme is dehydrogenase and said substrate is a substrate of dehydrogenase.
- 37. (Currently amended) A method for detecting the presence or amount of analyte in a sample comprising:
- (a) contacting said sample with an assay composition containing the substance composition of claim 19, wherein the presence of an analyte of interest causes oxidation or reduction of said enzyme co-factor; and
- (b) detecting or measuring electrochemiluminesence emitted from said electrochemiluminescent label;

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(c) correlating said electrochemiluminesence to the presence or amount of analyte in a sample.

38. (Currently amended) The method of claim 37, wherein said analyte is an enzyme and said <u>assay</u> composition further comprises a substrate of said enzyme or said analyte is an enzyme substrate and said composition further comprises an enzyme for said enzyme substrate.

39 - 41 (Cancelled).